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RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/940,919

DATE: 09/18/2001
TIME: 10:20:50

Input Set : A:\LEX-0228-USA SEQLIST.txt
Output Set: N:\CRF3\09182001\I940919.raw

ENTERED

4 <110> APPLICANT: Friddle, Carl Johan
5 Gerhardt, Brenda
6 Hu, Yi
8 <120> TITLE OF INVENTION: Novel Human GABA Transporter Protein and Polynucleotides Encoding the
9 Same
11 <130> FILE REFERENCE: LEX-0228-USA
C--> 13 <140> CURRENT APPLICATION NUMBER: US/09/940,919
C--> 13 <141> CURRENT FILING DATE: 2001-08-28
13 <150> PRIOR APPLICATION NUMBER: US 60/230,178
14 <151> PRIOR FILING DATE: 2000-09-01
16 <160> NUMBER OF SEQ ID NOS: 3
18 <170> SOFTWARE: FastSEQ for Windows Version 4.0
20 <210> SEQ ID NO: 1
21 <211> LENGTH: 1578
22 <212> TYPE: DNA
23 <213> ORGANISM: homo sapiens
25 <400> SEQUENCE: 1
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27 caggccaaga tgagcggcat gttcgccagg atgggttttc aggcggccac ggatgaggag 120
28 gcggtgggct tcgcgcattg cgacgacctc gactttgagc accgccaggg cctgcagatg 180
29 gacatcctga aagccgaggg agagccctgc ggggacgagg gcgctgaagc gcccgtcgag 240
30 ggagacatcc attatcagcg aggcagcgga gctcctctgc cgccctccgg ctccaaggac 300
31 caggtgggag gtggtggcga attcgggggc cacgacaagc ccaaaatcac ggcgtgggag 360
32 gcaggctgga acgtgaccaa cgccatccag ggcatgttcg tgctgggcct accctacgcc 420
33 atcctgcacg gcggctacct ggggttgttt ctcatcatct tcgccgccgt tgtgtgctgc 480
34 tacaccggca agatcctcat cgcgtgcctg tacgaggaga atgaagacgg cgaggtggtg 540
35 cgcgtgcggg actcgtacgt ggccatagcc aacgcctgct gcgccccgcg cttcccaacg 600
36 ctgggcggcc gagtggtgaa cgtagcgcag atcatcgagc tggtgatgac gtgcatcctg 660
37 tacgtggtgg tgagtggcaa cctcatgtac aacagcttcc cggggctgcc cgtgtcgcag 720
38 aagtcctggt ccattatcgc cacggccgtg ctgctgcctt gcgccttcct taagaacctc 780
39 aaggccgtgt ccaagttcag tctgctgtgc actctggccc acttcgtcat caatatcctg 840
40 gtcatagcct actgtctatc gcgggcgcgc gactgggcct gggagaaggt caagttctac 900
41 atcgacgtca agaagttccc catctccatt ggcatcatcg tgttcagcta cacgtctcag 960
42 atcttcctgc cttcgctgga gggcaatatg cagcagccca gcgagttcca ctgcatgatg 1020
43 aactggacgc acatcgcagc ctgcgtgctc aagggcctct tcgcgctcgt cgcctacctc 1080
44 acctgggccg acgagaccaa ggaggtcatc acggataacc tgcccggctc catccgcgcc 1140
45 gtggtcaaca tctttctggt ggccaaggcg ctgttgtcct atcctctgcc attctttgcc 1200
46 gctgtcgagg tgctggagaa gtcgctcttc caggaaggca gccgcgcctt tttcccggcc 1260
47 tgctacagcg gcgacgggcg cctgaagtcc tgggggctga cgctgcgctg cgcgctcgtc 1320
48 gtcttcacgc tgctcatggc catttatgtg ccgcacttcg cgctgctcat gggcctcacc 1380
49 ggcagcctca cgggcgccgg cctctgtttc ttgctgccca gcctctttca cctgcgcctg 1440
50 ctctggcgca agctgctgtg gcaccaagtc ttcttcgacg tcgccatctt cgtcatcggc 1500
51 ggcatctgca gcgtgtccgg cttcgtgcac tccctcgagg gcctcatcga agcctaccga 1560
52 accaacgcgg aggactag 1578
54 <210> SEQ ID NO: 2
55 <211> LENGTH: 525
56 <212> TYPE: PRT

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/940,919 DATE: 09/18/2001
TIME: 10:20:50

Input Set : A:\LEX-0228-USA SEQLIST.txt
Output Set: N:\CRF3\09182001\I940919.raw

<213> ORGANISM: homo sapiens
<400> SEQUENCE: 2
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1 5 10 15
Ser Asn Lys Ser Gln Ala Lys Met Ser Gly Met Phe Ala Arg Met Gly
20 25 30
Phe Gln Ala Ala Thr Asp Glu Glu Ala Val Gly Phe Ala His Cys Asp
35 40 45
Asp Leu Asp Phe Glu His Arg Gln Gly Leu Gln Met Asp Ile Leu Lys
50 55 60
Ala Glu Gly Glu Pro Cys Gly Asp Glu Gly Ala Glu Ala Pro Val Glu
65 70 75 80
Gly Asp Ile His Tyr Gln Arg Gly Ser Gly Ala Pro Leu Pro Pro Ser
85 90 95
Gly Ser Lys Asp Gln Val Gly Gly Gly Gly Glu Phe Gly Gly His Asp
100 105 110
Lys Pro Lys Ile Thr Ala Trp Glu Ala Gly Trp Asn Val Thr Asn Ala
115 120 125
Ile Gln Gly Met Phe Val Leu Gly Leu Pro Tyr Ala Ile Leu His Gly
130 135 140
Gly Tyr Leu Gly Leu Phe Leu Ile Ile Phe Ala Ala Val Val Cys Cys
145 150 155 160
Tyr Thr Gly Lys Ile Leu Ile Ala Cys Leu Tyr Glu Glu Asn Glu Asp
165 170 175
Gly Glu Val Val Arg Val Arg Asp Ser Tyr Val Ala Ile Ala Asn Ala
180 185 190
Cys Cys Ala Pro Arg Phe Pro Thr Leu Gly Gly Arg Val Val Asn Val
195 200 205
Ala Gln Ile Ile Glu Leu Val Met Thr Cys Ile Leu Tyr Val Val Val
210 215 220
Ser Gly Asn Leu Met Tyr Asn Ser Phe Pro Gly Leu Pro Val Ser Gln
225 230 235 240
Lys Ser Trp Ser Ile Ile Ala Thr Ala Val Leu Leu Pro Cys Ala Phe
245 250 255
Leu Lys Asn Leu Lys Ala Val Ser Lys Phe Ser Leu Leu Cys Thr Leu
260 265 270
Ala His Phe Val Ile Asn Ile Leu Val Ile Ala Tyr Cys Leu Ser Arg
275 280 285
Ala Arg Asp Trp Ala Trp Glu Lys Val Lys Phe Tyr Ile Asp Val Lys
290 295 300
Lys Phe Pro Ile Ser Ile Gly Ile Ile Val Phe Ser Tyr Thr Ser Gln
305 310 315 320
Ile Phe Leu Pro Ser Leu Glu Gly Asn Met Gln Gln Pro Ser Glu Phe
325 330 335
His Cys Met Met Asn Trp Thr His Ile Ala Ala Cys Val Leu Lys Gly
340 345 350
Leu Phe Ala Leu Val Ala Tyr Leu Thr Trp Ala Asp Glu Thr Lys Glu
355 360 365
Val Ile Thr Asp Asn Leu Pro Gly Ser Ile Arg Ala Val Val Asn Ile

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TIME: 10:20:50

Input Set : A:\LEX-0228-USA SEQLIST.txt
Output Set: N:\CRF3\09182001\I940919.raw

107 370 375 380
108 Phe Leu Val Ala Lys Ala Leu Leu Ser Tyr Pro Leu Pro Phe Phe Ala
109 385 390 395 400
110 Ala Val Glu Val Leu Glu Lys Ser Leu Phe Gln Glu Gly Ser Arg Ala
111 405 410 415
112 Phe Phe Pro Ala Cys Tyr Ser Gly Asp Gly Arg Leu Lys Ser Trp Gly
113 420 425 430
114 Leu Thr Leu Arg Cys Ala Leu Val Val Phe Thr Leu Leu Met Ala Ile
115 435 440 445
116 Tyr Val Pro His Phe Ala Leu Leu Met Gly Leu Thr Gly Ser Leu Thr
117 450 455 460
118 Gly Ala Gly Leu Cys Phe Leu Leu Pro Ser Leu Phe His Leu Arg Leu
119 465 470 475 480
120 Leu Trp Arg Lys Leu Leu Trp His Gln Val Phe Phe Asp Val Ala Ile
121 485 490 495
122 Phe Val Ile Gly Gly Ile Cys Ser Val Ser Gly Phe Val His Ser Leu
123 500 505 510
124 Glu Gly Leu Ile Glu Ala Tyr Arg Thr Asn Ala Glu Asp
125 515 520 525
127 <210> SEQ ID NO: 3
128 <211> LENGTH: 2261
129 <212> TYPE: DNA
130 <213> ORGANISM: homo sapiens
132 <400> SEQUENCE: 3
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134 cacgggtggg ggcgccgcgc cagcttcgcg tagctgctct gacgccgctg ccgccgccgc 120
135 cgccgccgcc gccctccgca gcccagctcg cgccccgcgg cagctccgca gtgcactagc 180
136 caccaccgcc gccgccgccg ctccgccaga cctgctgcca gcttgcccgg tccagccctg 240
137 agagagcctc gaacgccagc tgcgagggtc atgagccaga gagccccggg gcgccgcgcg 300
138 gagagcaagc ggagatagcg actttgcgcc ccccagccct cgccttcttg catcgcgttc 360
139 cccgcatcct cgggtccttc tgtcctttcc gctgtcccca ccgccgccat ggccaccttg 420
140 ctccgcagca agctgtccaa cgtggccacg tccgtgtcca acaagtccca ggccaagatg 480
141 agcggcatgt tcgccaggat gggttttcag gcggccacgg atgaggaggc ggtgggcttc 540
142 gcgcattgcg acgacctcga ctttgagcac cgccagggcc tgcagatgga catcctgaaa 600
143 gccgagggag agccctgcgg ggacgagggc gctgaagcgc ccgtcgaggg agacatccat 660
144 tatcagcgag gcagcggagc tcctctgccg ccctccggct ccaaggacca ggtgggaggt 720
145 ggtggcgaat tcgggggcca cgacaagccc aaaatcacgg cgtgggaggc aggctggaac 780
146 gtgaccaacg ccatccaggg catgttcgtg ctgggcctac cctacgccat cctgcacggc 840
147 ggctacctgg ggttgtttct catcatcttc gccgccgttg tgtgctgcta caccggcaag 900
148 atcctcatcg cgtgcctgta cgaggagaat gaagacggcg aggtggtgcg cgtgcgggac 960
149 tcgtacgtgg ccatagccaa cgcctgctgc gccccgcgct tcccaacgct gggcggccga 1020
150 gtggtgaacg tagcgcagat catcgagctg gtgatgacgt gcatcctgta cgtggtggtg 1080
151 agtggcaacc tcatgtacaa cagcttcccg gggctgcccg tgtcgcagaa gtcctggtcc 1140
152 attatcgcca cggccgtgct gctgccttgc gccttcctta agaacctcaa ggccgtgtcc 1200
153 aagttcagtc tgctgtgcac tctggcccac ttcgtcatca atatcctggt catagcctac 1260
154 tgtctatcgc gggcgcgcga ctgggcctgg gagaaggtca agttctacat cgacgtcaag 1320
155 aagttcccca tctccattgg catcatcgtg ttcagctaca cgtctcagat cttcctgcct 1380
156 tcgctggagg gcaatatgca gcagcccagc gagttccact gcatgatgaa ctggacgcac 1440
157 atcgcagcct gcgtgctcaa gggcctcttc gcgctcgtcg cctacctcac ctgggccgac 1500

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/940,919 DATE: 09/18/2001
TIME: 10:20:50

Input Set : A:\LEX-0228-USA SEQLIST.txt
Output Set: N:\CRF3\09182001\I940919.raw

158 gagaccaagg aggtcatcac ggataacctg cccggctcca tccgcgccgt ggtcaacatc 1560
159 tttctggtgg ccaaggcgct gttgtcctat cctctgccat tctttgccgc tgtcgaggtg 1620
160 ctggagaagt cgctcttcca ggaaggcagc cgcgcctttt tcccggcctg ctacagcggc 1680
161 gacgggcgcc tgaagtcctg ggggctgacg ctgcgctgcg cgctcgtcgt cttcacgctg 1740
162 ctcatggcca tttatgtgcc gcacttcgcg ctgctcatgg gcctcaccgg cagcctcacg 1800
163 ggcgccggcc tctgtttctt gctgcccagc ctctttcacc tgcgcctgct ctggcgcaag 1860
164 ctgctgtggc accaagtctt cttcgacgtc gccatcttcg tcatcggcgg catctgcagc 1920
165 gtgtccggct tcgtgcactc cctcgagggc ctcatcgaag cctaccgaac caacgcggag 1980
166 gactagggcg caagggcgag ccccgccgc gcttctgcgc tctctccctt ctcccctcac 2040
167 cccgccccca ccagcccagt gcgccctgcc gccgcgcttg ggaggccaag ctttaaacat 2100
168 ctctggttcc tagtttctga ttattcgggg atgggggga tgggagggga cagggattca 2160
169 cgatccatcg cgtctgcgtt tctgttgtcc tttcttttcc acaacaccct ggttttgggg 2220
170 ggaggcgggg tgcatttgcg ggcagggttc tctgtccttc c 2261

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/940,919

DATE: 09/18/2001
TIME: 10:20:51

Input Set : A:\LEX-0228-USA SEQLIST.txt
Output Set: N:\CRF3\09182001\I940919.raw

L:13 M:270 C: Current Application Number differs, Replaced Current Application No
L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date